ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Livestock Facility Inspection Checklist

GENERAL INFORMATION

TYPE OF INSPECTION:
☒ CAFO ☐ COMPLAINT ☐ RECONNAISSANCE ☐ ERU FOLLOW UP ☐ OPERATOR REQUEST ☐ OTHER

FACILITY NAME (LLC, Inc., Corp, Partnership, sole proprietorship, etc.)	INSPECTION DATE	ARRIVAL TIME
Diericks Swine Farm Exemptions 6 and 7(C)	**May 5, 2011**	**~2:40 PM**

ADDRESS	INSPECTOR(s)	DEPARTURE TIME
19753 E. 2200 St.	**E. Ackerman & S. Fowler**	**~3:00 PM**

CITY	STATE	ZIP CODE	ACCOMPANIED BY (if applicable)
Atkinson	**IL**	**61235**	**None**

LEGAL DESCRIPTION	COUNTY	SECTION	TOWNSHIP	RANGE	TEMPERATURE	PRECIPITATION TYPE
	Henry	**34**	**Loraine**	**1/4 NE**	**~ 53 F**	**Sunny to Cloudy**

	NAME	CONTACTED	PHONE	MOBILE
Facility Owner(s): Exemption 6 and Exemption 7(C)	**Ralph Diericks**	☒ YES ☐ NO	Exemption 6 and Exemption 7(C)	
	ADDRESS	CITY	STATE	ZIP CODE
	Exemption 6 and Exemption 7(C)			
	NAME	CONTACTED ☐ YES ☐ NO	PHONE	MOBILE
	ADDRESS	CITY	STATE	ZIP CODE
Facility Operator(s): Exemption 6 and Exemption 7(C)	NAME	CONTACTED ☐ YES ☐ NO	PHONE	MOBILE
	ADDRESS	CITY	STATE	ZIP CODE
	NAME	CONTACTED ☐ YES ☐ NO	PHONE	MOBILE
	ADDRESS	CITY	STATE	ZIP CODE

NPDES PERMIT INFORMATION (If no NPDES Permit, skip this section)

1. What type of NPDES permit has been issued? ☐ Individual NPDES Permit ☐ General NPDES Permit	NPDES #	
2. What date was the NPDES permit issued?		
3. What date does the NPDES permit expire?		
4. Is a copy of the NPDES permit onsite?	☐ YES	☐ NO
5. Permitted number of animal units?		
6. Does the NPDES Permit contain a compliance schedule?	☐ YES	☐ NO
7. Have there been any changes made to the production area since the permit was issued?	☐ YES	☐ NO

If "YES", provide a detailed description of those changes.

None

LAND APPLICATION/NUTRIENT MANAGEMENT

1. How many TOTAL acres are available for land application? **400** acres		
2. How many acres are READILY available for land application at the time of inspection? _____ acres		
3. Estimated annual quantities of liquid waste **1.2 Million** gallons		
4. Estimated annual quantities of solid waste _____ tons		
5. Does the facility have a contractor perform land application? If "YES", Name of Contractor: **Justin Peterson (Out of Landmark)**	☒ YES	☐ NO
6. What type of land application equipment is available to the facility? ☐ Umbilical Injection ☐ Honeywagon Injection ☐ Honeywagon Surface ☐ Irrigation ☐ Rotational Gun ☐ Manure Spreader ☐ Vegetative Filter ☒ Other **Inject with Tanks**		
7. Does the facility calibrate the land application equipment? If "YES", What method is used? **Contracted**	☒ YES	☐ NO
8. Does the facility land apply within the 150 foot setback from any water well? If "YES", Explain **Contracted**	☒ YES	☐ NO
9. Does the facility land apply within the 200 foot setback from any surface water? If "YES", Explain **Contracted**	☒ YES	☐ NO
10. Does the facility land apply near any residences? If "YES", Explain Exemptions 6 and 7(C) **one neighbor within 1/4 mile** **Contracted**	☒ YES	☐ NO
11. Is livestock waste transferred off-site to another party? If "YES", Are records of manure transfers kept? If "YES", Ask to see records	☐ YES ☐ YES	☐ NO ☐ NO
12. Does the facility have a current NMP or CNMP? If "YES", Does the facility maintain a copy of the nutrient management plan (NMP) onsite?	☒ YES ☐ YES	☐ NO ☐ NO
13. Does the NMP reflect the current operational characteristics (number of animals, cropping, etc.)?	☒ YES	☐ NO
14. Are the number of acres owned/leased consistent with those in the NMP?	☒ YES	☐ NO
15. Is manure and wastewater being applied in accordance with setback/buffer requirements of the NMP?	☒ YES	☐ NO
16. Are all of the records identified in the NMP being maintained and kept current?	☒ YES	☐ NO
17. Are records being maintained at the required frequency?	☒ YES	☐ NO
18. Are records being maintained onsite for the period required by NMP and/or NPDES permit?	☐ YES	☐ NO
19. Is the NMP adequately addressing the storage, handling and application of manure and wastewater to prevent discharges to waters of the U.S.?	☐ YES	☐ NO

LIVESTOCK FACILITY DESCRIPTION

Facility Type	
☒ Total Confinement Buildings	☐ Open Earthen Feedlot
☐ Open Confinement Buildings	☐ Vegetated Pasture
☐ Open Concrete Feedlot	☐ Other _____

Type of Animals	Number of Animals (currently)	Capacity	Type of Confinement
SWINE > 55 LBS	**0**	**3300**	**Total**

Does the facility have an Illinois Certified Livestock Manager (300 or greater animal units)?	☐ N/A	☒ YES	☐ NO
If greater than 1000 animal units but less than 5000 animal units, does the facility have a waste management plan?	☐ N/A	☒ YES	☐ NO
If greater than 5000 animal units, has the facility submitted a waste management plan to IDOA for review?	☐ N/A	☐ YES	☐ NO
Does the facility have any other locations under common ownership, or where equipment and/or manure is shared, or where the other site shares land application sites? If so, put names and addresses below. **None**		☐ YES	☐ NO

LIVESTOCK WASTE STORAGE

1. Does the facility have any existing livestock waste containment system? ☒ YES ☐ NO
   If NO, then proceed to question 10.

2. General description of the waste containment system (include solid and liquid manure handling, mortality, and feed storage areas).
   Manure is stored in a above ground slurry tank, which at the time of the inspection appeared to be bending out at the bottom.

   Mortalities are rendered using Schnowske rendering service. The mortalities are stored in a 8'X8' box on the north end of the slurry tank until hauled away. The pick-up is once a week.

Type of Storage	Total Storage Capacity (Specify Units)
☐ Anaerobic Lagoon	
☐ Covered Lagoon	
☐ Holding Pond	
☒ Above Ground Storage Tank ("Slurrystore")	**1.5 Million Gallons-emptied every fall**
☐ Below Ground Storage Tank	
☐ Settling Basin	
☐ Roofed Storage Shed	
☐ Concrete Pad	
☐ Impervious Soil Pad	
☐ Underfloor Pits	
☐ Anaerobic Digester	
☐ Manure Stacks	
☐ Vegetative Filter	
☐ Other _____	
☐ None	

3. Do the storage structures have depth markers or staff gauges? ☐ YES ☐ NO

4. Are levels of manure in the storage structures recorded and records kept? ☒ YES ☐ NO

5. Do the storage structures have adequate freeboard? ☒ YES ☐ NO

6. Estimated final stage storage structure freeboard **~66** in.

7. Do facility personnel perform routine visual inspections of the storage structures? ☒ YES ☐ NO

8. Are the routine visual inspections documented? ☒ YES ☐ NO

9. Does the system have an outfall or discharge point? ☐ YES ☐ NO

If "YES", please provide a description (overflow pipe, spill way, etc. Include a description the area receiving the discharge).
None

10. Are there any portions of the production area where runoff is not controlled? ☐ YES ☐ NO

If "YES", provide a detailed description of the area(s) of concern:
None

MORTALITIES MANAGEMENT

1. How are mortalities managed? (Composted, buried, burned, rendering service, other)
Rendering- Schnowske

2. Are mortalities documented and are records kept? ☐ YES ☐ NO

FACILITY WATER SOURCES

1. What type of method is used to provide drinking water for the animals?

   ☐ Overflow waters ☐ Tip Tanks ☒ Nipple waters ☐ Water Bowls ☐ Other _____

2. How is the water for animals obtained?

   ☐ Community PWS ☒ On-Site Well ☐ On-Site Impoundment ☐ Other **New well 415' deep**

3. Is a mist cooling system used? ☒ YES ☐ NO

   How is mist water contained?

   Water falls into pit works in 15 min. cycles from 10AM - 8PM

DAIRY OPERATION (If No Dairy, skip this section)

1. How many times per day are cows milked? _____

2. Describe how the dairy's non-contact cooling water is contained (Example: it is reused for drinking water for the animals).

   None

3. Describe how the milking parlor is cleaned (hose or flush) and where the process wastewater goes and how it is contained.

   None

4. Describe how the tank(s) are washed and where the process wastewater goes and how it is contained.

   None

5. Describe where process wastewater from the plate cooler goes and how it is contained.

   None

BEDDING (If No Bedding, skip this section)

1. Describe what type of bedding is used for the animals.

   None

2. Describe how bedding is collected and how often.

   None

3. What is done with the used bedding? ☐ Reused ☐ Land Applied

MANURE COLLECTION

1. How is manure collected?

- ☐ Under Floor Pit
- ☒ Scraped: ☐ Automatic ☒ Manual
- ☐ Flush
- ☐ Solids Separator
- ☐ Other: _____
- ☐ None

2. If manure collection system uses either clean or reused water to flush, describe where this water goes and how it is contained.

None

FEED STORAGE CONTAINMENT

1. Describe how feed (silage, hay, etc) is contained.

- ☒ Bulk Bins
- ☐ Silage Pit
- ☐ Ag Bags
- ☐ Hay: ☐ Barn ☐ Outdoor
- ☐ Other: _____

2. Describe how feed (silage, hay, etc) runoff is contained.

- ☒ Not Applicable – Feed totally enclosed
- ☐ Other: _____
- ☐ None

RECEIVING SURFACE WATERS

1. Provide a description of the flow path from the facility to the nearest named surface water.

None

2. What is the name of the receiving stream?

None

3. Status of the named surface water: ☐ Intermittent ☐ Perennial

4. Are any unnatural bottom deposits observed in the receiving stream: ☐ YES ☐ NO

If "YES", provide a description of the deposits: **None**

DISCHARGES		
1. Have there been any documented discharges of livestock waste to surface water ***in the past year***? If "NO" proceed to question 2.	☐ YES	☐ NO
a. If "YES", specify the date(s).		
b. What was the reason for the discharge?		
c. Was the discharge the result of a 25 year-24 hour rainfall event?	☐ YES	☐ NO
d. What was the precipitation amount? *(if applicable)*		
e. Was IEMA notified of the discharge?	☐ YES	☐ NO
f. Has the facility taken corrective action to remedy the situation which caused the discharge(s)?	☐ YES	☐ NO
If "YES", describe actions taken: **None**		
2. Is the facility currently discharging livestock waste from the production area? If "NO" proceed to next section.	☐ YES	☐ NO
b. Was the discharge the result of a 25 year-24 hour rainfall event?	☐ YES	☐ NO
c. What was the precipitation amount? *(if applicable)*		
d. What is the reason for the discharge?		

OTHER COMMENTS/NOTES

The slurry tank needs to be inspected by Cady, to see if the bending occuring at the bottom of the tank is structurally sound. This slurry tank has had sheets replaced in it.

Will an inspection report be attached? ☒ YES ☐ NO

INSPECTOR'S SIGNATURE	**REPORT DATE**

Cc: BOW/DWPC/RU

Attachments: **Report/Fig. 1-2/Photographs**

IEPA - BOW - *Peoria*

Inspection Report

Subject: Henry County (Atkinson)

Diericks Swine Farm [redacted] Exemptions 6 and 7(C)
19753 E 2200 St.
Atkinson, IL 61235

To: DWPC/FOS & RU

From: Star M. Fowler DWPC-FOS, Peoria Region

Date: May 5, 2011

On May 5, 2011 at 10:00 AM Eric Ackerman and I visited Diericks Swine Farm [redacted] Exemption 6 and Exemption 7(C) to inspect the wean to finish facility. Ralph Diericks is the owner of the facility and he was contacted after the inspection occurred. A plan view and various drawings of the site and digital photographs of the area are attached to this report. Weather conditions for the day were sunny to cloudy and the temperature was approximately 53°F. Bio-security measures were observed. The following paragraphs provide further details of the field visit that compliment the CAFO Checklist.

Location:
This facility is located approximately 6 miles north of Atkinson at road 2450N. The legal description of this facility is the ¼ NE, Section 34, (Loraine Township) in Henry County. The site is located in the watershed of the Green River.

Site Description:
Mr. Diericks purchased this site 7 years ago in January 2012, previously it was called Harms, Donald Swine Farm. This site is a wean to finish operation. The hogs are finished for Murphy-Brown, LLC.

Mr. Diericks has just added a new 415' deep well on-site for the facility.

Total Confinement Buildings:
This facility has 3 total confinement buildings on site. They all hold a maximum capacity of 1,100 head hogs, for a total capacity of the site of 3,300 hogs. The buildings have 13" deep pits under them. A scraper system is used to gravity feed into the collection tank. This scraper system is a manual system that is turned on each morning. From the collection tank the manure is then pumped into slurry tank.

Manure Management:
The slurry tank on-site is a 1.5 Million Gallon tank. This tank is emptied once a year during the fall. An estimated yearly amount of 1.2 Million Gallons of manure is generated per year. The land application of the manure is contracted out to Justin Peterson, out of Landmark. The manure is injected beneath the surface using tank wagons. Mr. Diericks owns 400 acres of land to apply to. There is also one neighbor who owns 80 Acres of land that uses some of the manure.

Slurry Tank:
This slurry tank has had some sheets replaced in it a few years ago. The slurry tank during the inspection appeared to be bending outward (See Photograph #3.) Mr. Diericks stated that he thought the slurry tank has looked that way since he first purchased the property. There also were many markings on the outside of the tank where paint was flaking off the tank (See Photograph #4.) We suggested to Mr. Diericks to call CADY INC. about the slurry tank and see if someone can come out and inspect the tank to make sure it is structurally sound.

There seemed to be evidence around the slurry tank of a recent minor release of manure from the release valve. See Photographs #1 & 5. A stream located to the direct south of the slurry tank enters into the Green River. The stream at this time appeared to be un-affected from the small manure release.

At the time of the inspection the slurry tank had approximately 1 and ½ rings of freeboard, with each ring ~44" tall the freeboard is ~66". The slurry tank freeboard is measured regularly and monthly reports are sent in.

Nutrient Management Plan:
The facility has a Nutrient Management Plan (NMP) for the site. Mowers Soil Testing Plus out of Toulon created the NMP. The NMP is up-dated every spring by Mowers.

Mortalities:
All the mortalities on this site are rendered using Schnowske Rendering Services. Schnowske comes once a week to pick up all mortalities. Until they are picked-up mortalities are held in an 8'X8' storage box located on the north side of the slurry tank.

Conclusion:
In conclusion for this inspection the slurry tank needs to be inspected for structural integrity and the release valve on the tank needs to be inspected to make sure it is functioning properly. A representative from CADY INC. needs to come to the site and report on the findings in regards to issues with the slurry tank at this time:

1) Bottom ring bending outward.
2) Paint chipping off the sides.
3) Release Valve integrity.

This report is submitted for your information.

Star M. Fowler

Att: -CAFO Checklist
-Figures 1-2
-Photographs

cc: -Bruce Yurdin, BOW
-Peoria Files

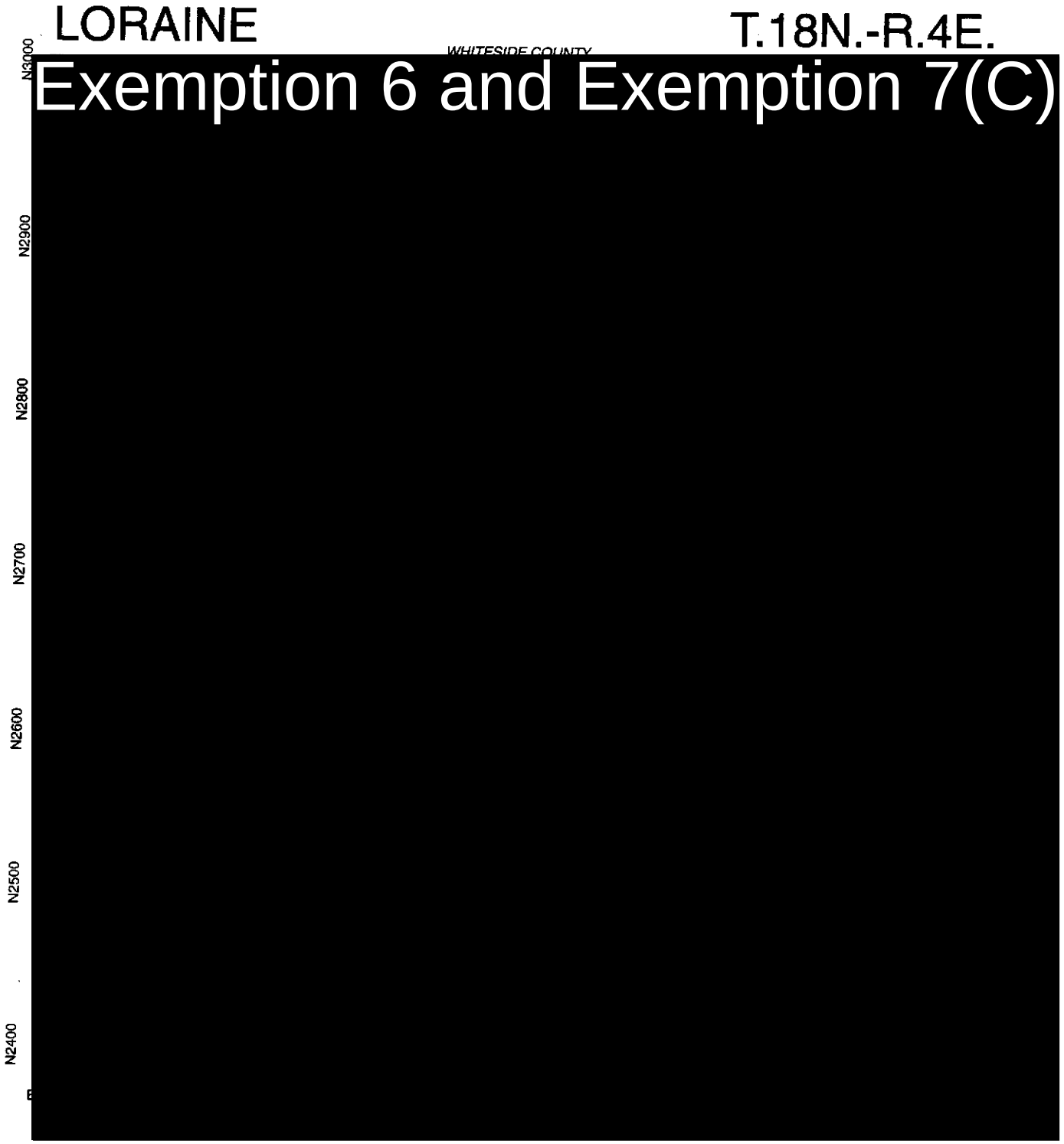


Figure 1. Location Map of Diericks Swine Farm Exemptions 6 and 7(C)
Atkinson in Henry County on May 5, 2011.

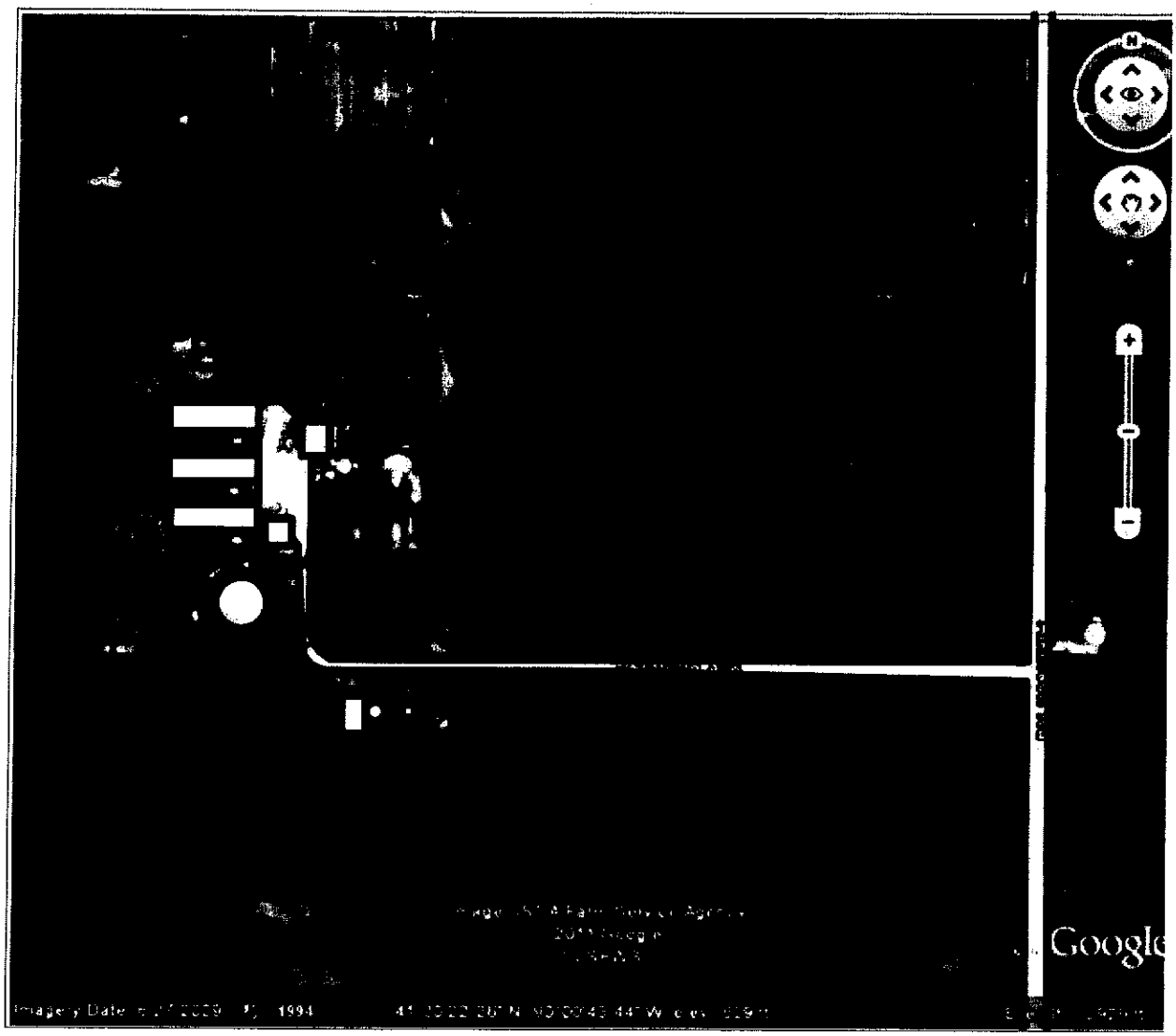
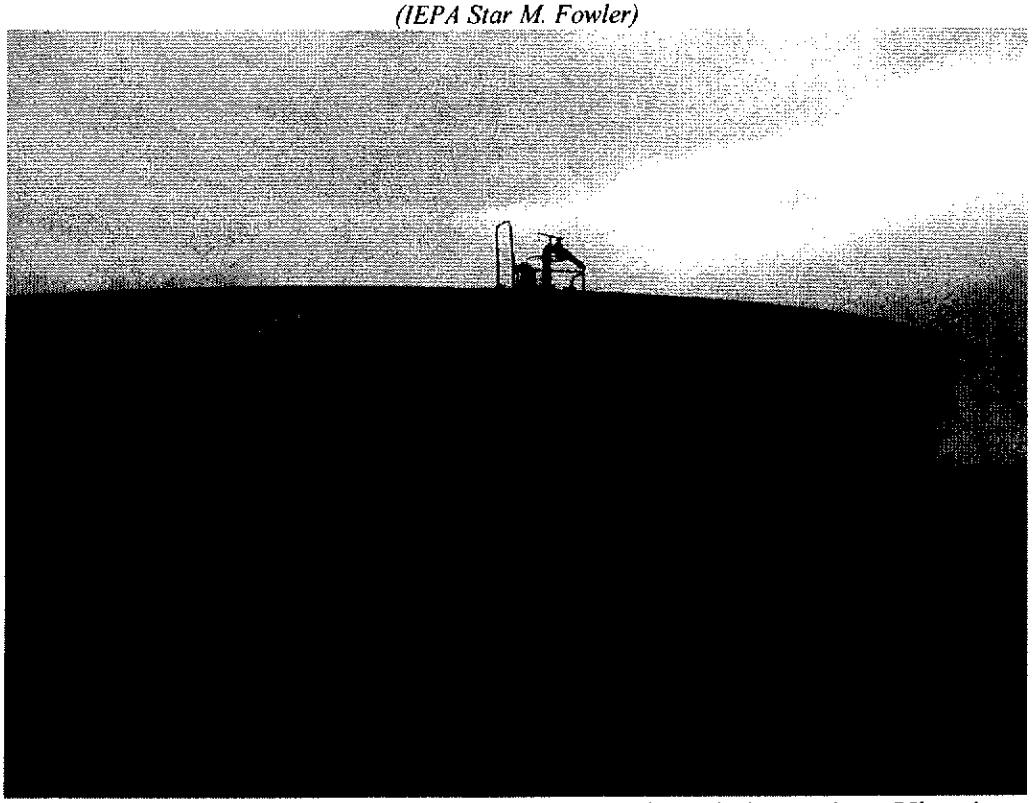
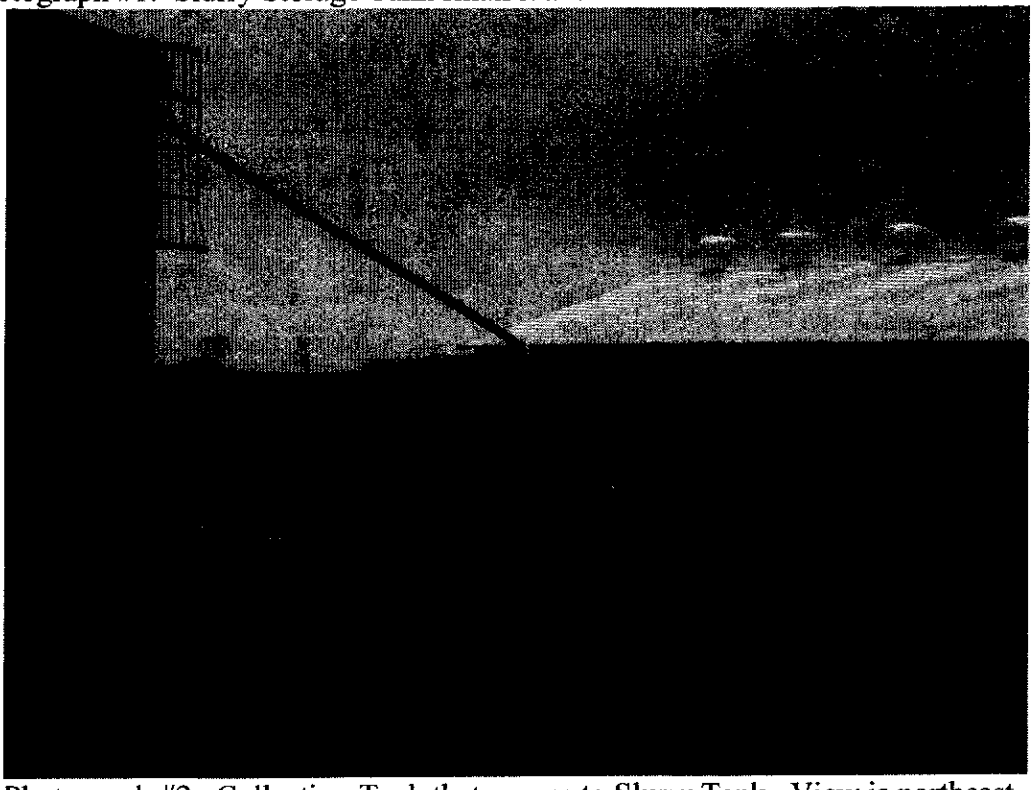


Figure 2. Plan View From Google Earth of Diericks Swine Farm Exemption 6 and Exemption 7 on May 5, 2011.

Diericks Swine Farm Exemptions 6 and 7(C)
Henry County
May 5, 2011
(IEPA Star M. Fowler)



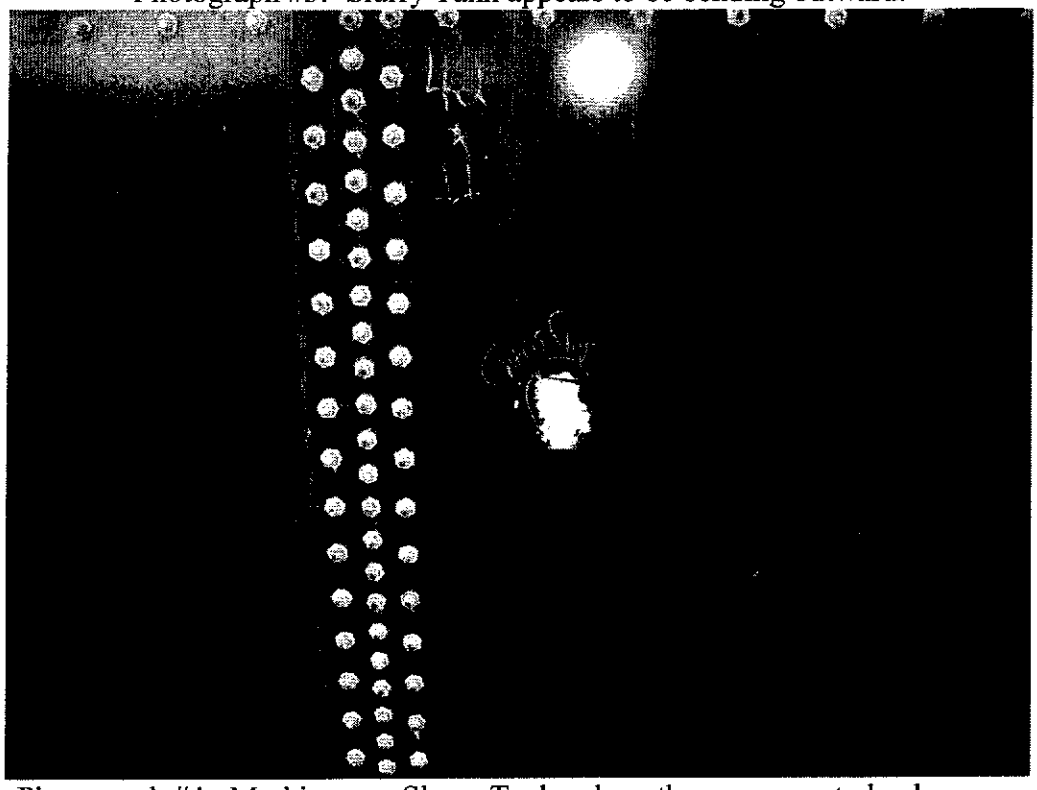
Photograph #1. Slurry Storage Tank small manure release below valve. View is west.



Photograph #2. Collection Tank that pumps to Slurry Tank. View is northeast.

Dierickx Swine Farm Exemptions 6 and 7(C)
Henry County
May 5, 2011

Photograph #3. Slurry Tank appears to be bending outward.



Photograph #4. Markings on Slurry Tank, where there appears to be damage.

Diericks Swine Farm [redacted] Exemptions 6 and 7(C)
Henry County
May 5, 2011

Photograph #5. Manure deposits on ground from release valve.